Title (en)

METHOD AND APPARATUS FOR CONSTRUCTING PUNCTURED POLAR CODE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERSTELLUNG EINES PUNKTIERTEN POLARCODES

Title (fr)

PROCÉDÉ ET APPAREIL PERMETTANT D'ÉLABORER UN CODE POLAIRE POINÇONNÉ

Publication

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Application

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Priority

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Abstract (en)

[origin: EP3142257A1] Embodiments of the present invention provide a method and an apparatus for constructing a punctured polar code, which relate to the encoding and decoding field, and can improve decoding performance of a punctured polar code and reduce a frame error rate of the punctured polar code. The method is as follows: comparing a phase sequence number of a current bit channel with a period index of a puncturing pattern to obtain a comparison result; obtaining a transition probability of the bit channel according to the comparison result and bit parity conditions of a sequence number of the bit channel in each phase; obtaining a reliability value of each bit channel according to the transition probability; and determining an information bit index set according to the reliability values. The embodiments of the present invention are used for constructing a punctured polar code.

IPC 8 full level

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